



# SAFETY DATA SHEET

This Safety Data Sheet Complies With the Requirements of: 29 CFR 1910.1200

Revision Date: 23-Apr-2020

Version 1.01

## 1. IDENTIFICATION

### Product Identifier

**Product Name** PHASE-SHIELD PS-685

### Other Means of Identification

**Product Code** PS-685

**UN/ID no** UN2924

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Restricted to professional users.

### Details of the Supplier of the Safety Data Sheet

Aegis Chemical Solutions  
Corporate Headquarters  
4560 Kendrick Plaza Dr., Ste 190  
Houston, TX 77032  
Telephone: 281-258-4095

### Emergency Telephone Number

**Company Phone Number** 281-258-4095

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|  |             |
|--|-------------|
| Skin Corrosion/Irritation                          | Category 1  |
| Serious Eye Damage/Eye Irritation                  | Category 1  |
| Skin sensitization                                 | Category 1  |
| Carcinogenicity                                    | Category 1B |
| Reproductive Toxicity                              | Category 2  |
| Specific target organ toxicity (single exposure)   | Category 3  |
| Specific target organ toxicity (repeated exposure) | Category 2  |
| Aspiration toxicity                                | Category 1  |
| Flammable liquids                                  | Category 2  |

### Label Elements

#### Emergency Overview

#### **Danger**

#### **Hazard Statements**

Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
May cause cancer  
Suspected of damaging fertility or the unborn child

May cause drowsiness or dizziness  
 May cause damage to organs through prolonged or repeated exposure  
 May be fatal if swallowed and enters airways  
 Highly flammable liquid and vapor



**Color** Amber

**Physical State** Liquid

**Odor** Solvent

#### Precautionary Statements - Prevention

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/spill-response/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting  
 Rinse mouth  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards Not Otherwise Classified (HNOC)

Not applicable

#### Other Information

- May be harmful if swallowed
- May be harmful in contact with skin
- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

Unknown acute toxicity

7% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

| Chemical Name  | CAS No     | Weight-% |
|--|------------|----------|
| Solvent naphtha, petroleum, heavy aromatic   | 64742-94-5 | 36       |
| Dodecylbenzenesulfonic acid  | 27176-87-0 | 20       |
| Solvent naphtha, petroleum, light aromatic   | 64742-95-6 | 18       |
| Toluene  | 108-88-3   | 10       |
| Benzene, 1,2,4-trimethyl-  | 95-63-6    | 5        |
| Dipentene  | 138-86-3   | 3.4      |
| Naphthalene (impurity)   | 91-20-3    | 1.3      |
| Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues | 68909-77-3 | < 1      |
| Ethylbenzene (impurity)  | 100-41-4   | < 0.3    |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

##### General Advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

##### Skin Contact

Wash off immediately with plenty of water. Call a physician immediately. Wash off immediately with soap and plenty of water.

##### Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician. Move victim to fresh air. If not breathing, give artificial respiration. Call a physician immediately.

##### Ingestion

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

##### Self-protection of the first aider

Remove all sources of ignition.

#### Most Important Symptoms and Effects, Both Acute and Delayed

##### Symptoms

No information available

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

##### Note to Physicians

May cause sensitization of susceptible persons. Treat symptomatically. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach

contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

### **Specific Hazards Arising From the Chemical**

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Flammable.

### **Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency procedures**

#### **Personal Precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

#### **Environmental Precautions**

#### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

### **Methods and Material for Containment and Cleaning Up**

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for Cleaning Up**

Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Cover liquid spill with sand, earth or other non-combustible absorbent material. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

#### **Advice on Safe Handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

### **Conditions for Safe Storage, Including any Incompatibilities**

#### **Storage Conditions**

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place.

#### **Incompatible Materials**

Strong oxidizing agents. Strong acids. Chlorinated compounds.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| Chemical Name                        | ACGIH TLV         | OSHA PEL   | NIOSH IDLH  |
|--------------------------------------|-------------------|--|---|
| Toluene<br>108-88-3                  | TWA: 20 ppm       | TWA: 200 ppm<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 375 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 560 mg/m <sup>3</sup><br>Ceiling: 300 ppm           | IDLH: 500 ppm<br>TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 560 mg/m <sup>3</sup> |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | -                 | -  | TWA: 25 ppm<br>TWA: 125 mg/m <sup>3</sup>   |
| Naphthalene (impurity)<br>91-20-3    | TWA: 10 ppm<br>S* | TWA: 10 ppm<br>TWA: 50 mg/m <sup>3</sup><br>(vacated) TWA: 10 ppm<br>(vacated) TWA: 50 mg/m <sup>3</sup><br>(vacated) STEL: 15 ppm<br>(vacated) STEL: 75 mg/m <sup>3</sup>       | IDLH: 250 ppm<br>TWA: 10 ppm<br>TWA: 50 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 75 mg/m <sup>3</sup>     |
| Ethylbenzene (impurity)<br>100-41-4  | TWA: 20 ppm       | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup><br>(vacated) STEL: 125 ppm<br>(vacated) STEL: 545 mg/m <sup>3</sup> | IDLH: 800 ppm<br>TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>STEL: 125 ppm<br>STEL: 545 mg/m <sup>3</sup> |

NIOSH IDLH *Immediately Dangerous to Life or Health*

### **Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### **Appropriate Engineering Controls**

#### **Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems.

### **Individual Protection Measures, Such as Personal Protective Equipment**

**Additional Evaluation Needed** The Protection Measures listed below are generic recommendations for working with this product in a controlled environment. A workplace assessment should be completed to detail any additional Protective Measures and PPE that may be required.

**Eye/Face Protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                       |                          |              |       |
|-----------------------|--------------------------|--------------|-------|
| <b>Physical State</b> | Liquid                   | <b>Color</b> | Amber |
| <b>Odor</b>           | Solvent.                 |              |       |
| <b>Odor Threshold</b> | No information available |              |       |

| <u>Property</u>              | <u>Values</u>            | <u>Remarks • Method</u>     |
|------------------------------|--------------------------|-----------------------------|
| pH                           | 7.5                      |                             |
| Melting Point/Freezing Point | No information available |                             |
| Boiling Point/Boiling Range  | 115 °C / 239 °F          |                             |
| Flash Point                  | 7 °C / 45 °F             | (based on lowest component) |
| Evaporation Rate             | No information available |                             |
| Flammability (solid, gas)    |                          |                             |
| Flammability Limit in Air    |                          |                             |
| Upper Flammability Limit:    | No information available |                             |
| Lower Flammability Limit:    | No information available |                             |
| Vapor Pressure               | No information available |                             |
| Vapor Density                | No information available |                             |
| Specific Gravity             | 0.93                     |                             |
| Water Solubility             | No information available |                             |
| Solubility in Other Solvents | No information available |                             |
| Partition Coefficient        | No information available |                             |
| Autoignition Temperature     | No information available |                             |
| Decomposition Temperature    | No information available |                             |
| Kinematic Viscosity          | No information available |                             |
| Dynamic Viscosity            | No information available |                             |
| Explosive Properties         | No information available |                             |
| Oxidizing Properties         | No information available |                             |

**Other Information****10. STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Heat, flames and sparks.

**Incompatible Materials**

Strong oxidizing agents. Strong acids. Chlorinated compounds.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Product Information**

Information given is based on available data of the components and the toxicology of similar products. The product has not been tested.

**Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system. Aspiration into lungs can produce severe lung damage.

**Eye Contact**

Avoid contact with eyes. Risk of serious damage to eyes.

**Skin Contact**

May be harmful in contact with skin. Contact causes severe skin irritation and possible burns.

**Ingestion**

May be harmful if swallowed. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

| Chemical Name  | Oral LD50                                | Dermal LD50                                  | Inhalation LC50                     |
|--|--|--|-------------------------------------|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5   | > 5000 mg/kg ( Rat )                     | > 2 mL/kg ( Rabbit )                         | > 590 mg/m <sup>3</sup> ( Rat ) 4 h |
| Dodecylbenzenesulfonic acid<br>27176-87-0  | = 1260 mg/kg ( Rat )                     | -  | -                                   |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6   | = 8400 mg/kg ( Rat )                     | > 2000 mg/kg ( Rabbit )                      | = 3400 ppm ( Rat ) 4 h              |
| Toluene<br>108-88-3  | = 2600 mg/kg ( Rat )                     | = 12000 mg/kg ( Rabbit )                     | = 12.5 mg/L ( Rat ) 4 h             |
| Benzene, 1,2,4-trimethyl-<br>95-63-6   | = 3280 mg/kg ( Rat )                     | > 3160 mg/kg ( Rabbit )                      | = 18 g/m <sup>3</sup> ( Rat ) 4 h   |
| Dipentene<br>138-86-3  | = 5300 mg/kg ( Rat )                     | -  | -                                   |
| Naphthalene (impurity)<br>91-20-3  | = 1110 mg/kg ( Rat ) = 490 mg/kg ( Rat ) | = 1120 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit ) | > 340 mg/m <sup>3</sup> ( Rat ) 1 h |
| Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues<br>68909-77-3 | = 1500 mg/kg ( Rat )                     | -  | -                                   |
| Ethylbenzene (impurity)<br>100-41-4  | = 3500 mg/kg ( Rat )                     | = 15400 mg/kg ( Rabbit )                     | = 17.2 mg/L ( Rat ) 4 h             |

**Information on Toxicological Effects****Symptoms**

No information available.

**Delayed and Immediate Effects as Well as Chronic Effects From Short and Long-term Exposure****Sensitization**

No information available.

**Germ Cell Mutagenicity  
Carcinogenicity**

Not known to cause heritable genetic damage.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name                       | ACGIH | IARC     | NTP                    | OSHA |
|-------------------------------------|-------|----------|------------------------|------|
| Toluene<br>108-88-3                 | -     | Group 3  | -                      | -    |
| Naphthalene (impurity)<br>91-20-3   | A3    | Group 2A | Reasonably Anticipated | X    |
| Ethylbenzene (impurity)<br>100-41-4 | A3    | Group 2B | -                      | X    |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - *Animal Carcinogen*

IARC (International Agency for Research on Cancer)

Group 2A - *Probably Carcinogenic to Humans*

Group 2B - *Possibly Carcinogenic to Humans*

Group 3 - *Not classifiable as a human carcinogen*

NTP (National Toxicology Program)

Reasonably Anticipated - *Reasonably Anticipated to be a Human Carcinogen*

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - *Present*

**Reproductive Toxicity****Teratogenicity****STOT - Single Exposure****STOT - Repeated Exposure****Chronic Toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

Not known to cause birth defects or have a deleterious effect on a developing fetus.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Contains a known or suspected reproductive toxin. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target Organ Effects**

Blood, Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.

**Aspiration Hazard** May be fatal if swallowed and enters airways.

The following values are calculated based on chapter 3.1 of the GHS document .

|                                      |            |
|--------------------------------------|------------|
| <b>ATEmix (oral)</b>                 | 2904 mg/kg |
| <b>ATEmix (dermal)</b>               | 3355 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 5.3 mg/l   |
| <b>ATEmix (inhalation-vapor)</b>     | > 20 mg/l  |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

8% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical Name  | Algae/Aquatic Plants  | Fish  | Crustacea   |
|--|---|---|---|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5   | 2.5: 72 h <i>Skeletonema costatum</i> mg/L EC50   | 41: 96 h <i>Pimephales promelas</i> mg/L LC50 1740: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 45: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 2.34: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 19: 96 h <i>Pimephales promelas</i> mg/L LC50 static  | 0.95: 48 h <i>Daphnia magna</i> mg/L EC50   |
| Dodecylbenzenesulfonic acid<br>27176-87-0  | 29: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50   | 3.5 - 10: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 10.8: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static   | 5.88: 48 h <i>Daphnia magna</i> mg/L EC50   |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6   | -   | 9.22: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50   | 6.14: 48 h <i>Daphnia magna</i> mg/L EC50   |
| Toluene<br>108-88-3  | 433: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 12.5: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static | 15.22 - 19.05: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 12.6: 96 h <i>Pimephales promelas</i> mg/L LC50 static 5.89 - 7.81: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 14.1 - 17.16: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 5.8: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 semi-static 50.87 - 70.34: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 11.0 - 15.0: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 54: 96 h <i>Oryzias latipes</i> mg/L LC50 static 28.2: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static | 5.46 - 9.83: 48 h <i>Daphnia magna</i> mg/L EC50 Static 11.5: 48 h <i>Daphnia magna</i> mg/L EC50   |
| Benzene, 1,2,4-trimethyl-<br>95-63-6   | -   | 7.19 - 8.28: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through   | 6.14: 48 h <i>Daphnia magna</i> mg/L EC50   |
| Naphthalene (impurity)<br>91-20-3  | 0.4: 72 h <i>Skeletonema costatum</i> mg/L EC50   | 5.74 - 6.44: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1.6: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.91 - 2.82: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 1.99: 96 h <i>Pimephales promelas</i> mg/L LC50 static 31.0265: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static  | 2.16: 48 h <i>Daphnia magna</i> mg/L LC50 1.09 - 3.4: 48 h <i>Daphnia magna</i> mg/L EC50 Static 1.96: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through |
| Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues<br>68909-77-3 | EC50 (72 h) > 120 mg/l (growth rate), <i>Desmodesmus subspicatus</i> (OECD Guideline 201, static)                             | LC50 (96 h) 681.2 mg/l, <i>Leuciscus idus</i> (DIN 38412 Part 15, static)<br>The details of the toxic effect relate to the nominal concentration. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. After neutralization a reduction in harmful effect can be observed.  | -   |
| Ethylbenzene (impurity)  | 4.6: 72 h <i>Pseudokirchneriella</i>  | 11.0 - 18.0: 96 h <i>Oncorhynchus</i>   | 1.8 - 2.4: 48 h <i>Daphnia magna</i> mg/L   |



|          |  |   |      |
|----------|--|---|------|
| 100-41-4 | subcapitata mg/L EC50 438: 96 h<br>Pseudokirchneriella subcapitata<br>mg/L EC50 2.6 - 11.3: 72 h<br>Pseudokirchneriella subcapitata<br>mg/L EC50 static 1.7 - 7.6: 96 h<br>Pseudokirchneriella subcapitata<br>mg/L EC50 static | mykiss mg/L LC50 static 4.2: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>semi-static 7.55 - 11: 96 h<br>Pimephales promelas mg/L LC50<br>flow-through 32: 96 h Lepomis<br>macrochirus mg/L LC50 static 9.1 -<br>15.6: 96 h Pimephales promelas<br>mg/L LC50 static 9.6: 96 h Poecilia<br>reticulata mg/L LC50 static | EC50 |
|----------|--|---|------|

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical Name  | Partition Coefficient |
|--|-----------------------|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | 2.9 - 6.1             |
| Toluene<br>108-88-3                                      | 2.65                  |
| Benzene, 1,2,4-trimethyl-<br>95-63-6                     | 3.63                  |
| Naphthalene (impurity)<br>91-20-3                        | 3.3                   |
| Ethylbenzene (impurity)<br>100-41-4                      | 3.118                 |

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Do not reuse container. Empty drums should be completely drained properly bunged and promptly returned to a drum reconditioner, or properly disposed.

**US EPA Waste Number**

D001, U165 U220

| Chemical Name                       | RCRA | RCRA - Basis for Listing   | RCRA - D Series Wastes | RCRA - U Series Wastes |
|-------------------------------------|------|--|------------------------|------------------------|
| Toluene<br>108-88-3                 | U220 | Included in waste streams:<br>F005, F024, F025, F039,<br>K015, K036, K037, K149,<br>K151 | -                      | U220                   |
| Naphthalene (impurity)<br>91-20-3   | U165 | Included in waste streams:<br>F024, F025, F034, F039,<br>K001, K035, K060, K087,<br>K145 | -                      | U165                   |
| Ethylbenzene (impurity)<br>100-41-4 | -    | Included in waste stream:<br>F039  | -                      | -                      |

| Chemical Name       | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes   | RCRA - K Series Wastes |
|---------------------|--------------------------------------|------------------------|--|------------------------|
| Toluene<br>108-88-3 | -                                    | -                      | Toxic waste<br>waste number F025<br>Waste description:<br>Condensed light ends, spent<br>filters and filter aids, and<br>spent desiccant wastes from<br>the production of certain<br>chlorinated aliphatic<br>hydrocarbons, by free<br>radical catalyzed processes.<br>These chlorinated aliphatic | -                      |

|                                   |   |   |   |   |
|-----------------------------------|---|---|---|---|
|                                   |   |   | hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.   |   |
| Naphthalene (impurity)<br>91-20-3 | - | - | Toxic waste<br>waste number F025<br>Waste description:<br>Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | - |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                       | California Hazardous Waste Status |
|-------------------------------------|-----------------------------------|
| Toluene<br>108-88-3                 | Toxic<br>Ignitable                |
| Naphthalene (impurity)<br>91-20-3   | Toxic                             |
| Ethylbenzene (impurity)<br>100-41-4 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION**

**DOT**

**UN/ID no** UN2924  
**Proper Shipping Name** Flammable liquids, corrosive, n.o.s (contains petroleum solvents, toluene, dodecylbenzenesulfonic acid)  
**Hazard Class** 3  
**Subsidiary Class** 8  
**Packing Group** II

**Quantity Dependent Shipping Descriptions**

**Quantity** < 644 gallons  
**DOT Description** UN2924, Flammable liquids, corrosive, n.o.s, (contains petroleum solvents, toluene, dodecylbenzenesulfonic acid), 3 (8), PG II

**Quantity** 644- 992 gallons  
**DOT Description 2** UN2924, Flammable liquids, corrosive, n.o.s, (contains petroleum solvents, toluene, dodecylbenzenesulfonic acid), 3 (8), PG II, RQ (dodecylbenzenesulfonic acid)

**Quantity** 993 - 1289 gallons  
**DOT Description 3** UN2924, Flammable liquids, corrosive, n.o.s, (contains petroleum solvents, toluene, dodecylbenzenesulfonic acid), 3 (8), PG II, RQ (dodecylbenzenesulfonic acid, naphthalene)

**Quantity** > 1289 gallons  
**DOT Description 4** UN2924, Flammable liquids, corrosive, n.o.s, (contains petroleum solvents, toluene, dodecylbenzenesulfonic acid), 3 (8), PG II, RQ (dodecylbenzenesulfonic acid, naphthalene, toluene)

## 15. REGULATORY INFORMATION

### International Inventories

|                      |             |
|----------------------|-------------|
| <b>TSCA</b>          | Complies    |
| <b>DSL/NDSL</b>      | Complies    |
| <b>EINECS/ELINCS</b> | Not Present |
| <b>ENCS</b>          | Not Present |
| <b>IECSC</b>         | Not Present |
| <b>KECL</b>          | Not Present |
| <b>PICCS</b>         | Not Present |
| <b>AICS</b>          | Not Present |

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | Yes |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical Name                             | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Dodecylbenzenesulfonic acid<br>27176-87-0 | 1000 lb                     | -                      | -                         | X                          |
| Toluene<br>108-88-3                       | 1000 lb                     | X                      | X                         | X                          |
| Naphthalene (impurity)<br>91-20-3         | 100 lb                      | X                      | X                         | X                          |
| Ethylbenzene (impurity)<br>100-41-4       | 1000 lb                     | X                      | X                         | X                          |

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material.

| Chemical Name                             | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|---|--------------------------|----------------|---|
| Dodecylbenzenesulfonic acid<br>27176-87-0 | 1000 lb                  | -              | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Toluene<br>108-88-3                       | 1000 lb                  | -              | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Naphthalene (impurity)<br>91-20-3         | 100 lb                   | -              | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |
| Ethylbenzene (impurity)<br>100-41-4       | 1000 lb                  | -              | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

|             |                   |                |                    |                                    |
|-------------|-------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health Hazards 2  | Flammability 3 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health Hazards 2* | Flammability 3 | Physical Hazards 0 | Personal Protection X              |

Revision Date: 23-Apr-2020

#### **Revision Note:**

(M)SDS sections updated

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#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**